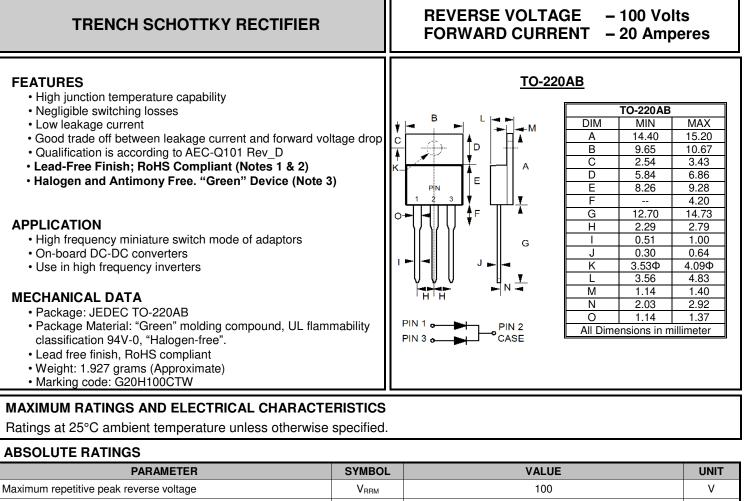




A Product Line of Diodes Incorporated

## LITE-ON SEMICONDUCTOR

# G20H100CTW



Maximum repetitive peak reverse voltage		V <sub>RRM</sub>	100	V
Maximum DC blocking voltage		V <sub>DC</sub>	100	V
Maximum Average rectified output current	@T <sub>c</sub> =120°C	I <sub>(AV)</sub>	20	А
Peak forward surge current 8.3ms single half sine-wave superimposed on rated load.		I <sub>FSM</sub>	280	А
Non repetitive peak reverse current	@tp=2uS	I <sub>RSM</sub>	3	А
Operating junction and Storage Temperature range		T <sub>J,</sub> T <sub>STG</sub>	-55 ~ +175	°C

#### STATIC ELECTRICAL CHARACTERISTICS

PARAMETER	TEST CONDITIONS		SYMBOL	ТҮР	MAX	UNIT
Forward voltage (Note 4)	I <sub>F</sub> =10A	TJ=25°C TJ=125°C	V <sub>F</sub>	0.61	0.77 0.64	V
Leakage current	V <sub>R</sub> =100V	T <sub>J</sub> =25°C T <sub>J</sub> =125°C	I <sub>R</sub>	 0.39	4 5	uA mA
Typical junction capacitance (Note 5)		CJ	685		pF	

#### THERMAL CHARACTERISTICS

PARAMETER	SYMBOL	ТҮР	UNIT
	RthJc	4	_
Typical thermal resistance (Note 6,7)	RthJ∟	9	°C/W

Note:

1. EU Directive 2002/95/EC (RoHS), 2011/65/EU (RoHS 2) & 2015/863/EU (RoHS 3) compliant. All applicable RoHS exemptions applied.

2. See https://www.diodes.com/quality/lead-free/ for more information about Diodes Incorporated's definitions of Halogen- and Antimony-free, "Green" and Lead-free.

3. Halogen- and Antimony-free "Green" products are defined as those which contain <900ppm bromine, <900ppm chlorine (<1500ppm total Br + Cl) and <1000ppm antimony

compounds.

4. 300us pulse width, 2% duty cycle.

5. Measured at 1.0MHz and applied voltage of 4.0V DC.

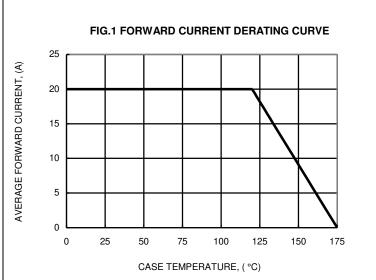
6. Thermal resistance test performed in accordance with JESD-51.

7. The unit mounted on Aluminum fin type heatsink (42mm x 25mm x 25.1mm).

# RATING AND CHARACTERISTIC CURVES G20H100CTW

A Product Line of Diodes Incorporated

## LITE-ON SEMICONDUCTOR



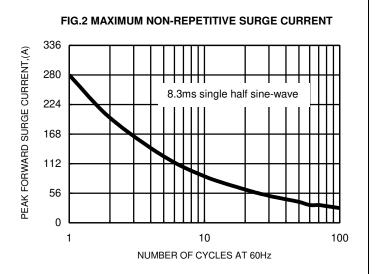
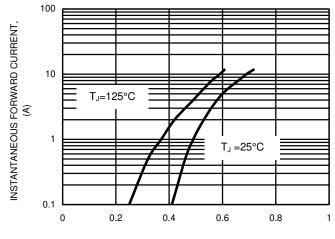


FIG.3 TYPICAL FORWARD CHARACTERISTICS



INSTANTANEOUS FORWARD VOLTAGE, (V)

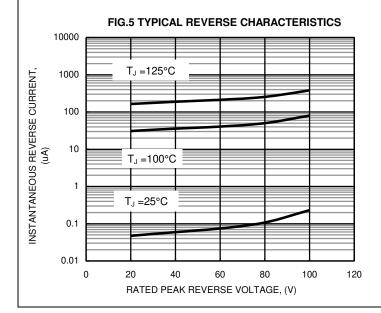
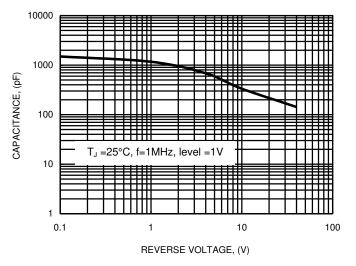


FIG.4 TYPICAL JUNCTION CAPACITANCE





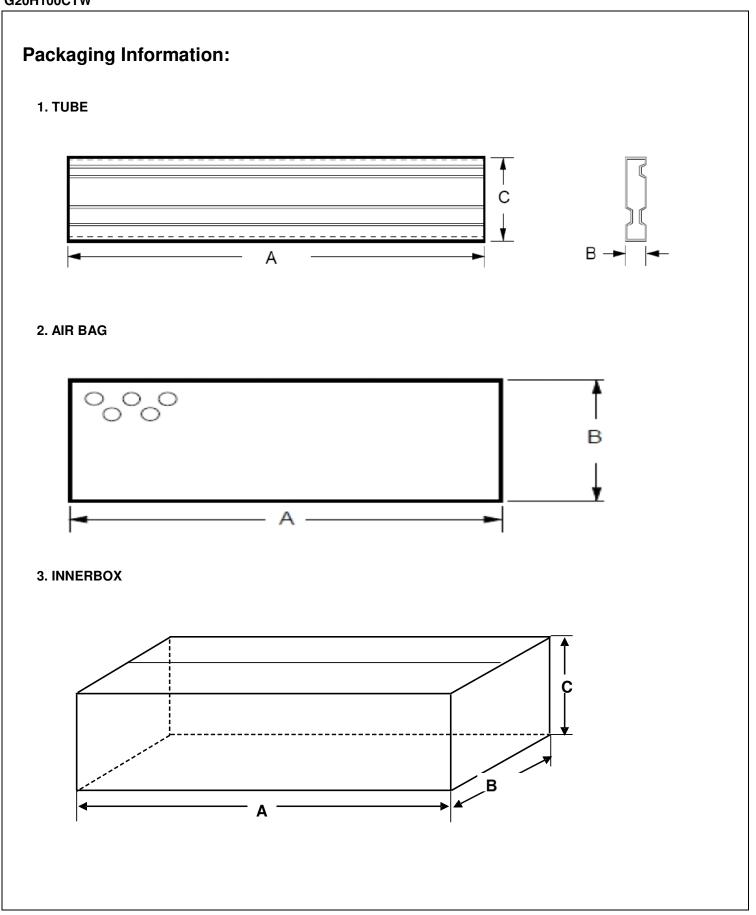
# LITE-ON SEMICONDUCTOR

# **Ordering Information:**

Dauk Marrie		Package	Packing	
	Part Number		Qty.	Carrier
G20H100C	G20H100CTW		50pcs	Tube
larking Information: $LOGO \longrightarrow$ Terminal Sign $\longrightarrow$	LT YXW G20H100CT	W + X = X = W	te Code : Year Code : 1.2.T.R.3Manufad : A.B.V.K.CGreen W = Week Code oduct Type Marking C	Compound



# LITE-ON SEMICONDUCTOR

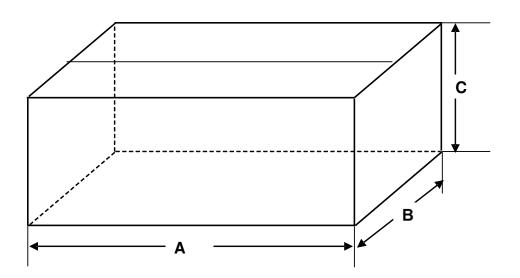




### LITE-ON SEMICONDUCTOR

# Packaging Information (continued):

### 4. CARTON



### Unit: mm

P/N	DIMENSION "A"	DIMENSION "B"	DIMENSION "C"	Q'ty/per	REMARK
TUBE	536	5.6	31.8	50	/
AIR BAG	800	550	/	/	/
INNERBOX	555	165	105	2000	40TUBE
CARTON	575	179	225	4K	2 INNER BOX





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